

PART 1 - GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI A135.4 (1995) Basic Hardboard

ANSI A208.1 (1993) Wood Particleboard

ARCHITECTURAL WOODWORK INSTITUTE (AWI)

AWI QS (1997) Architectural Woodwork Quality Standards and Quality Certification Program

BUILDERS HARDWARE MANUFACTURERS ASSOCIATION, INC. (BHMA)

ANSI/BHMA A156.9 (1994) Cabinet Hardware(BHMA 201)

KITCHEN CABINET MANUFACTURING ASSOCIATION (KCMA)

ANSI/KCMA A161.1 (1995) Kitchen and Vanity Cabinets

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

NEMA LD 3 (1995) High-Pressure Decorative Laminates

NEMA LD 3.1 (1995) Application, Fabrication, and Installation of High-Pressure Decorative Laminates

U.S. DEPARTMENT OF COMMERCE PRODUCT STANDARDS (PS)

PS-1 (1995) Construction and Industrial Plywood

PS-51 (1971) Hardwood and Decorative Plywood

PS-58 (1974) Basic Hardboard

1.2 SUBMITTALS

Submit the following in accordance with Section 01330, "Submittal Procedures."

1.2.1 SD-02, Shop Drawings

a. Cabinets: Show layout, details, materials, dimensions, and all information necessary for fabrication and installation.

1.2.2 SD-03, Product Data

a. Submit complete descriptive literature for each type of cabinet, countertop and cabinet hardware.

1.2.3 SD-04, Samples

a. Submit samples of laminated plastic and solid surface material, showing each color, pattern, and texture for approval by the Contracting Officer

b. Submit one assembled first article for inspection and approval by Contracting Officer at installation site.

1.3 DELIVERY AND STORAGE

Deliver materials in manufacturer's original unopened containers or packaging with labels intact and legible. Deliver, store, and handle materials so as to prevent damage. Replace defective or damaged materials with new.

PART 2 - PRODUCTS

2.1 CABINETS

The work includes providing new factory-finished kitchen wall and base cabinets with high pressure decorative laminate HPDL countertops and bathroom vanities with HPDL countertops. The cabinets shall conform to ANSI/KCMA A161.1, requirements specified herein, and bear the "KCMA Certified Cabinet" seal of the Kitchen Cabinet Manufacturers Association. In lieu of this, manufacturer shall submit test reports from an approval laboratory that cabinets meet requirements of ANSI/KCMA A161.1. Countertops shall conform to NEMA LD 3.1 and requirements specified herein.

2.2 MATERIALS

Conform to reference documents listed and specified requirements.

2.2. High-Pressure Decorative Laminate (HPDL)

NEMA LD 3, satin finish, unless otherwise indicated.

2.2.1.1 Countertops

PF 42, satin finish.

2.2.1.2 Vertical Surfaces

GP 28 or PF 30, satin finish.

2.2.1.3 Backing Sheet

BK 20.

2.2.1.4 Cabinet Liner

CL 20.

2.2.2 Softwood Plywood

PS-1.

2.2.2.1 Countertops

Exterior type, A-C Grade.

2.2.2.2 Elsewhere

Interior type, A-B Grade, may be used in lieu of hardwood plywood where HPDL finish is provided.

2.2.3 Hardboard

ANSI A135.4, tempered.

2.2.4 Particleboard

ANSI A208.1, Grade 1-M-2 or 2-M-2 or better may be used in lieu of plywood if both faces and all exposed edges are covered with wood veneer or HPDL.

2.3 FABRICATION

2.3.1 Cabinets

Kitchen wall and base cabinets, vanity tops and reception counter shall be same type of construction and appearance. Fabricate as European-style cabinets, full-overlay, flush-panel doors and drawers with maximum 3/16 inch reveal between doors and drawers. Ends, bottoms, tops, and partitions shall be hardwood plywood or particleboard not less than 1/2 inch thick. Cabinet backs and drawer bottoms shall be 1/8 inch tempered hardboard. Provide mortise and tenon, dovetail, or dowel joints and glue together to produce a rigid unit. Finish all exposed surfaces of plywood and particleboard with high-pressure decorative laminate. Provide 2 1/2 by 4 inch toe space with painted plywood or clear coated solid wood toe board.

2.3.1.1 Shelves

Particleboard not less than 5/8 inch thick. Support shelves at ends and 24 inches on center.

2.3.1.2 Doors

Particleboard, not less than 3/4 inch thick with flat panels laminate-faced all surfaces.

2.3.1.3 Drawer Fronts

Particleboard, not less than 3/4 inch thick to match doors and laminate-faced all surfaces.

2.3.1.4 Drawer Sides, Back and Front-backing

Solid clear wood, not less than 1/2 inch thick. Finger-joint construction at front and back of drawer box.

2.3.2 Hardware

ANSI/BHMA A156.9. Provide necessary hardware, including door and drawer pulls, two self-closing European-style hinges and silencers for each door and two side-mounted full-extension 20 gage zinc-or cadmium-plated steel guides with steel ball bearings and nylon rollers for each drawer. Center-mounted guides are not acceptable. Exposed hardware shall have a chromium-plated satin finish.

2.3.3 Countertop

Fabricate with lumber and high-density particleboard, glued and screwed to form an integral unit. Bond laminated plastic under pressure to exposed surfaces, using type of glue recommended by plastic manufacturer, and bond a backing sheet under pressure to underside of countertop. Countertop unit shall be post-formed type with no-drip nose, cove moulding, and Style A back splash, and covered with NEMA LD 3, Grade PF 42 plastic. Back splash shall be not less than 3 1/2 inches nor more than 4 1/2 inches high.

2.4 FINISHES

2.4.1 Cabinet Finish

Provide factory applied HPDL finish on all external surfaces; cabinet liner HPDL on internal surfaces.

2.4.1.1 HPDL Finish

Pattern and color; as selected from manufacturer's standard finishes. Cover internal surfaces with cabinet liner HPDL, color white.

PART 3 - EXECUTION

3.1 INSTALLATION

3.1.1 Cabinets and Countertops

Install cabinets and countertops level, plumb, true to line, and tight against adjacent walls. Secure cabinets to walls with concealed screws or toggle bolts, and secure tops to cabinets with concealed screws. Provide closer and filler strips and finish trim as required for a complete and finished installation. Draw joints in countertops up tight with special concealed fasteners. Joints shall be flush within 0.010 inch, shall not gap more than 0.020 inch, and shall be watertight. Cut countertops which are to receive sinks or lavatories to templates furnished by sink or lavatory manufacturer. Align doors, adjust hardware, and clean all surfaces.

3.1.2 Counters

Counters as indicated. Conceal fastenings where practicable, fit counter neatly, install in a rigid and substantial manner, and scribe to adjoining surfaces. Provide counter sections in longest lengths practicable; keep joints in tops to a minimum; and where joints are necessary, provide tight hairline joints drawn up with concealed-type heavy pull-up bolts. Glue joints with water-resistant glue and, in addition, make rigid and substantial with screws, bolts, or other approved fastenings.

END OF SECTION